#### IN THE UNITED STATES AND TRADEMARK OFFICE

Application No. Filing Date Examiner Group Art Unit

<u>10/576,893</u> <u>04/24/2006</u> <u>K.L. Thompson</u> <u>3672</u>

Applicant Title Docket No. Customer Number

Laurence J. Avling M&A for Adding 593-PCT-US 75253

A Tubular to Drill String With Diverter

## PETITION(S) and REMARKS

Commissioner for Patents

Sir:

This is in response to the Notice of Abandonment dated September 15, 2008 and Notice of Allowance and Fee(s) Due dated May 21, 2008 in the above identified application.

The Applicant is submitting a Petition For Revival Of An Application For Patent Abandoned Unintentionally Under 37 CFR 1.137(b) and Form PTOL-85 — Part B — Fees Transmittal for Issue Fee and Publication Fee along with all required fees.

The Applicant however wishes to petition the Director of the United Patent and Trademark Office (Director) under 37 CFR 1.182 or 37 CFR 1.183 to waive the requirement for payment of the petition fee covered by the Petition For Revival Of An Application For Patent Abandoned Unintentionally Under 37CFR 1.137(b). The Applicant is requesting that this Petition to the Director be under either 37 CFR 1.182 (Questions not specifically provided for.) or 37 CFR 1.183 (Suspension of rules.) The \$400.00 fee under 37 CFR 1.17(f) has been included with fees payments attached herein.

The basis for the Applicant's Petition to the Director is that the Applicant's representative did not receive the Notice of Allowance and Fee(s) Due and the Notice of Allowability forms in a timely manner. The Applicant has attached copies of Notice of Allowance and Notice of Allowability forms and all papers associated with the forms as well as the Applicant's response to an Office Action to the Applicant dated December 5, 2007.

Please note that the Notice of Allowance and Fee(s) and Fee(s) Transmittal forms sent to the Applicant had an incorrect address. The address used was:

Sardano Group, LLC 2505 Anthem Village Drive Suite E-290 Henderson, NV 89052

That was not the address of the Applicant's representative. I believe that Customer Number 76981 belongs to the Sardano Group, but rightfully the Electronic Business Center was unable to confirm the correctness of my belief. They did confirm that the correct Customer Number for Bartlett and Sherer is 75981. Attempts to reach the Sardano Group were fruitless. Please note that the Applicant's response to the Office Action dated January 28, 2008 included the correct address at the end of the Amendment and Remarks Letter. The Applicant's representative does concede that the on the Amendment Transmittal Letter and the Certificate of Mailing By First Class Mail had the incorrect Customer Number (76981). However please note as stated above that the Amendment and Remarks Letter had the correct Customer Number (75981).

It is the Applicant's opinion that when the person completing the Notice of Allowance and Fee(s) form had the incorrect address come up (Sardano) he or she did not verify a match between Customer Number address the correct address.

When I discovered the Notice of Abandonment on the Public Pair system in mid August, 2009, I contacted the Examiner and was advised that I should obtain a new Power of Attorney giving me authority to represent the client with the Office. Unfortunately, the Inventor has been traveling and unavailable to execute the new Power of Attorney. The undersigned received the new Power of Attorney (attached herein) on December 15, 2009 dated December 8, 2009.

The Applicant petitions the Director to revive the '893 application identified above and refund to the Applicant the Petition for Revival Fee as well as the Petition Fee for this petition to the Director.

The Applicant respectfully requests that Director grant the requests made above.

The Applicant respectfully requests that the Office issue this patent as soon as possible.

Sincerely,

Gerow D. Brill, Reg. Number 34554

Counsel for the Applicant

Gerow D. Brill 20 Oakmont Circle New Freedom, PA 17349 December 16, 2009

## Docket No. Petition For Revival Of An Application For Patent Abandoned Unintentionally Under 37 CFR 1.137(b) (Large Entity) 593-PCT In Re Application Of LAURENCE JOHN AYLING Customer No. Group Art Unit | Confirmation No. Examiner Filing Date Application No. 3409 THOMSON, KENNETH L. 75253 3672 10/576.893 24 APRIL 2006 invention: METHOD AND APPARATUS FOR ADDING A TUBULAR TO DRILL STRING WITH DIVERTER Attention: Office of Petitions Mail Stop Petition COMMISSIONER FOR PATENTS P.O. 8ox 1450 Alexandria, VA 22313-1450 If information or assistance is needed in completing this form, please contact Petitions NOTE: Information at (571) 272-3282. The above-identified application became abandoned for failure to file a timely and proper response to a notice or action by the Patent and Trademark Office. The date of abandonment is the day after the expiration date of the period set for reply in the Office notice or action plus any extension of time actually obtained. APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION NOTE: A grantable petition requires the following items: Petition feet **(1)** Reply and/or issue fee; (2) Terminal disclaimer with disclaimer fee-required for all utility and plant applications (3) filed before June 8, 1995; and for all design applications; and Statement that the entire delay was unintentional $\langle 4 \rangle$ 1. 🔯 A proposed reply to the above-identified notice or action: was filed on is enclosed. The proposed reply is in the form of: Notice of Allowance 2. 23 The issue feet is enclosed. was paid on 3. The abandoned application was a: design application. 4. A terminal disclaimer (and fee) disclaiming a period equivalent to the period of abandonment is enclosed. 5. 🔯 Since this utility/plant application was filed on or after June 8, 1995, no terminal disclaimer is required.

[Page 1 of 3] POSCARGESTEVOS

# Docket No. Petition For Revival Of An Application For Patent Abandoned Unintentionally Under 37 CFR 1.137(b) (Large Entity) 593-PCT In Re Application Of: LAURENCE JOHN AYLING Customer No. Group Art Unit | Confirmation No. Examiner Filing Date Application No. 3469 75253 3672 THOMSON, KENNETH L. 10/576,893 24 APRIL 2006 METHOD AND APPARATUS FOR ADDING A TUBULAR TO DRILL STRING WITH DIVERTER Invention: Calculation and Payment of Fees Enclosed are the following fees: 6. (2) Petition fee under 37 CFR 1.17(m) in the amount of: \$1,620.00 7. 🔯 Fee for reply in the amount of: 80.00 \$1,810.00 8. (X) Issue fee in the amount of: 9. Continuing application filing fee in the amount of: 10. Terminal disclaimer fee in the amount of: \$400.00 11. PETITION FEE FOR PETITION UNDER 37 CFR 1.17(f) Total fees enclosed: \$3,830.00 is to be paid as follows: The fee of \$3,830 A check in the amount of the fee is enclosed. The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account No. Payment by credit card. Form PTO-2038 is attached. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

## Petition For Revival Of An Application For Patent Abandoned Unintentionally Under 37 CFR 1.137(b) (Large Entity)

Docket No. 593-PCT

in Re Application Of: LAURENCE JOHN AYLING

	Application No.	Filing Date	Examiner			Confirmation No.
-	10/576,893	24 APRIL 2006	THOMSON, KENNETH L.	75253	3672	3409

invention: METHOD AND APPARATUS FOR ADDING A TUBULAR TO DRILL STRING WITH DIVERTER

#### Statement

The entire delay in filing the required reply from the due date for the required reply until the filing of a grantable petition under 37 CFR 1.137(b) was unintentional. [NOTE: The United States Patent and Trademark Office may require additional information if there is a question as to whether either the abandonment or the delay in filing a petition under 37 CFR 1.137(b) was unintentional (MPEP 711.03(c), Subsections (III)(C) and (D)).]

#### WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent appliation that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioner/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

Signature

GEROW D. BRILL BARTLETT AND SHERER 20 OAKMONT CIRCLE NEW FREEDOM, PA 17349

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1460" [37]

**DECEMBER 16, 2009** 

(Date)

Dated:

Signature of Person Mailing Correspondence

Typed or Printed Name of Person Mailing Correspondence

000

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(571) 273-2885 OF FAX

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence suldress as indicated unless corrected below or directed otherwise in Block 1, by (ii) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications

Note: A certificate of mailing can only be used for domestic mailings of CURRENT CORRESPONDENCE ADDRESS: (Note: Use Black I for any change of address) the Feetsi Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or **Partiett and Sherer** formal drawing, must have its own cortificate of mailing or transmission. 20 Oakmont Circle Certificate of Mailing or Transmission New Freedom, PA 17349 I hereby certify that this Fex(5) Transmittel is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being faccimile transmitted to the USPTO (571) 273-2885, on the date indicated below. (Depositor's nusso) (Signature) (Oate) ATTORSEY DOCKET NO. CONFERMATION NO. FIRST NAMED INVENTOR APPLICATION NO FELING DATE 593-PCT 3409 LAURENCE JOHN AYLING 04/24/2006 10/576.893 TITLE OF INVENTION: ISSUE FEE FUBLICATION FEE TOTAL FEE(S) DUE DATE DESC APPLN TYPE SMALL EXTITY 300 08/21/2008 1910 nonprovisional NO CLASS-SUBCLASS ABT UNTI REMANES 175-057000 THOMPSON, KENNETH L. 3672 2. For printing on the patent from page, list Change of correspondence address or indication of "Fee Address" (37 CF8 1.363). (1) the names of up to 3 registered patent FRONALD B. SHERER anomeys or agents OR, alternatively, Change of correspondence address (or Change of Correspondence Address form PTO/8B/122) attached. (2) the name of a single firm (having as a member a 2 OFROW D. SRILL registered attorney of agent) and the names of up to "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a 2 registered patent attorneys or agents. If no name is Customer Number is required. fisted, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PROTED ON THE PATENT (prim or type) PLEASE NOTE: Unless an assignment is identified below, no assignme data will appear on the patent. If an assignme is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for tiling an assignment. (B) RESIDENCE: (CITY and STATE OR COUNTRY) VANNAME OF ASSIGNEE. DOUGLASS, ISLE OF MAN COUPLER DEVELOPMENT LIMITED Please these the appropriate assigned unogery or entegones (will not be printed on the patent). Conference to the control of the con X Corporation of other private group entity. 🗀 Government . 4a. The following foo(s) are enclosed. 4b. Payment of Fee(s): A check in the amount of the fee(s) is enclosed. Sissue Fee
 80 Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached The Director is hereby amborized to charge the required fee(s), or credit any overpayment, Advance Order - # of Copies to Deposit Account Namber

Registration No. Typed or priesed name. GEROW D. BRILL This collection of information is required by 37 CFR L311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR L14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid assue fee to the application identified above NOTE: The Issue Fee and Publication for til required fill not be accepted from anyone other than the applicant, a registered atturney or surnit, or the assignee or other party in interest as shown by the records of the distance Patent and Trademark Office.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

5. Change in Entity Status (from status indicated above)

Authorized Signature

a. Applicant claims SMALL ENTITY status. Sec 37 CFR 1.27.

**DECEMBER 16, 2009** 

☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CF8 1.27(g)(2)

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1459 Alexandria, Virginia 22313-1450

(571) 273-2885 or Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE

ADDRESS<sup>a</sup> for maintenance fee notifications Note: A certificate of mailing can only be used for domestic mailings of CURRENT CORRESPONDEDGE ADDRESS: (Note: Use Block 1 for any alungs of address) the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or Bartlett and Sherer formal drawing, must have us own certificate of mailing or transmission. 20 Oakmont Circle Certificate of Mailing or Transmission New Freedom, PA 17349 I hereby certify that this Fco(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. (Dapientar's numa) (Signature) distante. CONFIRMATION NO. FIRST NAMED INVESTOR. ATTORNEY DOCKET NO. APPLICATION NO. FILING DATE S93-PCT 3469 LAURENCE JOHN AYLING 84/24/2006 10/576,893 TITLE OF INVENTION: TOTAL FEE(5) DUE DATEBUE ISSUE FEE PARLICATION RÉE SMACE ENTITY 8225.85 TYPE 360 08/21/2008 1510 NO nonprovisional CLASS-BUBCLASS ARTUNO EXAMBNER 3872 175-057000 THOMPSON, KENNETH L. Clumps of correspondence address or indication of "Fee Address" 2. For printing on the patent front page, list (37 CFR 1,363). (1) the names of up to 3 registered patent : RONALD B. SHERER attomeys or agents OR, alternatively, Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. (2) the name of a single firm (having as a member a 2 GEROW 0. SRILL "Fee Address" indication (or "Fee Address" Indication form registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is 3 PTO/SB/47, Rev 93-92 or more recent) attached. Use of a Customer Number is required. listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignees is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (B) RESIDENCE: (CITY and STATE OR COUNTRY) (A) NAME OF ASSIGNEE. COUPLER DEVELOPMENT LIMITED DOUGLASS, ISLE OF MAN Please check the appropriate assignee category or exegence (will not be printed on the pasen). D testivatual  $oldsymbol{\mathbb{Z}}$  Corporation or other prevate group entity.  $\square$  Government. 4a. The following fee(s) are enclosed 4b. Payment of Fee(s): A check in the amount of the fee(s) is enclosed. 20 France Fee Payment by credit card. Form PTO-2038 is attached 🔀 Publication Fee (No small entity discount permitted) The Director is hereby authorized to charge the required fec(s), or credit any overpayment, Advance Order - # of Copies tis Deposit Account Number 5. Change in Entity Status (from status indicated above) 🔲 a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2) The Director of the USPTO is requested to apply the Issue Fee and Publication Fee. (if any) in to re-apply any previously paid issue fee to the application identified above NOTE. The issue Fee and Publication Fee, it is required with not be accepted from anyone other than the applicant, a registered attency or signif, or the assignee or other party in interest as shown by the record-off the Usates Parent and Trademark Office. **DECEMBER 18, 2009** Authorized Signature

This collection of information is required by 37 CFR 1311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will very depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patern and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO - Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Registration No.

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GEROW D. BRILL

Typed or printed name

PTO/S8/122 (11-08)
Approved for use through 11/30/2011, OMS 0651-0036
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

thister the Paparagric Reduction Act of 1999, no persons are required to respond to a collection of information uniters it displays a valid OMB control number.

# CHANGE OF CORRESPONDENCE ADDRESS Application

Address to: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

\*Total of

Application Number	10/576,893
Filing Date	04/24/2006
First Named Inventor	Laurence John Ayling
Art Unit	3672
Examiner Name	Thompson, Kenneth L.
Attorney Docket Number	593-PCT

Please change the Correspondence Address for the above-identified application to:						
The address associated with 75253  Customer Number:						
OR	OR .					
Firm or Individual Name	Law Office of Gerow D. Brill					
Address	20 Oakmunt Circle					
City	New Freedom	State	PA	ZiP	17349	
Country	United States					
Telephone	717-235-1849	Email	gdbpatents@anl.co	1788		
This form cannot be used to change the data associated with a Customer Number. To change the data associated with an existing Customer Number use "Request for Customer Number Data Change" (PTO/SB/124).  I am the:  Applicant/Inventor  Assignee of record of the entire interest.						
agenrege.	under 37 CFR 3.73(b) is enclor		34	(54		
Attorney or Agent of record. Registration Number 34554  Registered practitioner named in the application transmittal letter in an application without an executed path or declaration. See 37 CFR 1.33(a)(1). Registration Number						
Signature ( )						
Typed or Printed Gerow D. Brill						
Date December 16, 2009 Telephone 717-235-1849						
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.						

This collection of information is required by 37 CFR 1.33. The information is required to obtain or retain is benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete his form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commencs, P.O. Box 1450, Alexandris, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandris, VA 22313-1460.

forms are submitted.

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

POWER OF ATTORNEY

Docket No. 593-PCT-US

Name of Applicant:

Laurence John Ayling

Address of Applicant: Maywood Lodge

Maywood Drive

Camberley, Surrey GU15 ILM, GB

Title:

METHOD AND APPARATUS FOR ADDING A TUBULAR TO DRILL STRING

WITH DIVERTER

Serial No., if Any:

10/576,893

Filed:

24 April 2006

TO THE COMMISSIONER FOR PATENTS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Honorable Sir:

I hereby appoint:

Gerow D. Brill Reg. Number 34554, 20 Oakmont Circle, New Freedom, PA

as principal attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Please direct all future correspondence to:

Law Office of Gerow D. Brill

Gerow D. Brill

20 Oakmont Circle

New Freedom, PA 17349

Dated: 8 December 2009



# United States Patent and Trademark Office

UNITED STATES BEPARTMENT OF COMMERCE United States Patent and Trademark Office Admit COMMISSIONER FOR PATENTS FO. Son 1459 Amazada, Vegina 22333-1430

APPLICATION NO	). FELING DATE	FIRST NAMED INVENTOR	ATTORNEY COCKET NO.	CONFIRMATION NO.		
10/575,893	04/24/2006	Laurence John Ayling	593-PCT-US	3409		
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Suite E-290 Henderson,	NV 89052		3872	······································		
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		a proper reply to the Office letter mailed or		t material in material stem		
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months fro	im the mailing date of the	required issue fee and publication fee, i Notice of Allowance (PTOL-85).				
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Allowabilit	y (PTO-37).	rected drawings as required by, and with				
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	rected drawing have bee	n received. I which is signed by the attorney or agent	of cannot the sesions:	on the entire interest or		
all of the s	pplicants.					
1.34(a)) u	oon the filling of a continu					
<ol><li>O The decis court revis</li></ol>	ion by the Board of Pale rw of the decision has exp	nt Appeals and interference rendered on pired and there are no allowed claims.	and becau	se the period for seeking		
7. O The reasc	n(s) below:					
Petitions should be	to revive under 37 CFR promptly filed to minimiz	1.137(a) or (b), or request to withdraw te any negative effects on patent term.	the holding of abandor	ment under 37 CFR 1.181,		
Yelephone inqui	ies should be directed to	the Office of Data Management at (571) 2	272-4200.			
Patent Publication Office of Data M						

FORM PTO-ABNO (Rev. 08/07)



#### United States Patent and Trademark Office

STEED STATES DEPARTMENT OF COMMEXCE United States Patent and Trademark Office address Condet(S) CONE FOR PA 12.5 CS 7.6, See 14.5; Advancin, Virgine 2313-1420 www.mpbs\_gov

EXAMINES

THOMPSON, REFERENCE L

#### NOTICE OF ALLOWANCE AND FEE(S) DUE

0823123338

PARES NUMBER

2505 Anthom Village Drive Suite E-290

19/576,893

Henderson, NV 89052

Sardano Group, LLC

3672

DATE MAILED: 05/21/2008

AKTUSH

APPEXCATION 500	FILING DATE	FIRST NAMED INVENTOR	ATTOBNEY DOCKET NO.	CONTRMATION NO.
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202 X27VH	04/24/2006	Lancence John Avilna	593-PCT-CS	3409

THEE OF INVENTION: METHOD AND APPARATUS FOR ADDING A TUBULAR TO DRIEL STRING WITH DIVERGER

APPLACTYPE	SMALL ENTITY	ISSUS FEE DUX	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL SEES, STOR	DATE OVE
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commentations!	NPS	\$3,536	\$3883	88	\$3.746	08021/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 38 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW M 8.

#### HOW TO REPLY TO THIS NOTICE:

L Review the SMALL ENTITY status shown above.

if the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Pec(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shows above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B + Fex(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filled, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trudentask CRibe Advisor COMMERCIAN FOR FATENTS FO Box 1330 Alexandro, Negatic 2253-1450 STANDARD STANDARD

****	APPLICATION 86	S 85	LING DATE	FIRST MANGED INVENTOR	ALTORNEY DOCKET NO.	CONFERMATION NO.
	10/576,893	,	34/24/2008	Laurence Eska Ayiing	593-PCT-US	3409
	7698)	7890	9372 (72008		EXAM	ever
	Sardano Gro	uo, LLC			THOMPSON.	RENNEYRY.
	2505 Anthem		ve.		AKT UNT	PAPER NOMBER
	Suite E-290	CONDARA			3870.	
	Henderson, N	A SAMOR			DATE MAILED: 05/21/200	8

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 164 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 164 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
ay or or wex or you	10/576,893	AYLING, LAUREI	NCE JOHN
Notice of Allowability	Examiner	Art Unit	***************************************
	Kenneth Thompson	3672	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petilion by the applicant. See 37 CFR 1,313	i (OR REMAINS) CLOSED in t ) or other appropriate commun B <b>GHTS</b> . This application is su	this application. If not inch ination will be mailed in di	uded :s course TMS
<ol> <li>This communication is responsive to <u>Amendment filed_31</u></li> </ol>	January 2006		
2. 🖾 The allowed claim(s) is/are <u>59-84</u> .			
<ol> <li>Acknowledgment is made of a claim for foreign priority us</li> <li>a)</li></ol>	a been received. a been received in Application	No	
<ol> <li>Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).</li> </ol>	cuments have been received	in this national stage appli	cation from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a ÆNT of this application.	reply complying with the r	requirements
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>	itted. Note the attached EXAN es reason(s) why the ceth or d	finer's amenoment or leclaration is deficient.	NOTICE OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) 🗍 including changes required by the Notice of Draftspers		PTO-948) attached	
1) 🗍 hereto or 2) 🗍 to Paper No./Mail Date			
<ul> <li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li> </ul>	s Amendment / Comment or it	the Office action of	
identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in ti	.84(c)) should be written on the he header according to 37 CFR	drawings in the front (not till 1.121(d).	he back) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT I</li> </ol>	sit of BIOLOGICAL MATER FOR THE DEPOSIT OF BIOL	NAL must be submitted OGICAL MATERIAL.	. Note the
Attachment(s) I. [] Notice of References Cited (PTO-892)	5. Notice of Infor	mai Patent Application	
. [] Notice of Draftperson's Palent Drawing Review (PTO-948)	6. ⊞ Interview Sum	mary (PTO-413).	
I. [] Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛭 Examiner's Ar	all Date Méridment/Comment	
Paper No./Mail Date  .  Examiner's Comment Regarding Requirement for Deposit of Slological Material	8. 🗍 Examiner's St	atement of Reasons for Al	llowance
	9. [] Other		
	/Kenneth Thompson Primary Examiner, Ai		
			3

#### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

#### In the Claims:

Claim 69, line 9 - replaced "annual" with - -annular- -.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Thompson whose telephone number is 571 272-7037. The examiner can normally be reached on 6:00 am - 2:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David J. Bagnell can be reached on 571-272-6999. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Page 3

Application/Control Number: 10/576,893

Art Unit: 3672

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

12 May 2008

/Kenneth Thompson/ Primary Examiner, Art Unit 3672

Jan 3672

CERTIFICATE OF	Docket No.			
	e John Ayling	,	593-1	PCT-US
Application No.	Filing Date	Examiner	Customer No.	Group Art Unit
10/576,893	04/24/2006	Kenneth L. Thompson	76981	3672
inventions Method and	d Apparatus for adding :	a tubular to <b>drill</b> string with diverter		
I hereby certify that t		ponse to Office Action dated 5 Decembe (Identify type of correspondence)		
addressed to "Comn		stal Service with sufficient postage as O. Box 1450, Alexandria, VA 22313-1- 		
		Gerow B (Typesfor Principal Name of Perno (Typesfor Principal Name of Perno (Typesfor Principal Name of Pernon Mail	on Migilias Corresponi //	dence)
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Approximation of the contraction			***************************************				
Application No.	cation No.   Filing Date   Examiner   Customer		istomer No.	Group Art Unit	Confirmation No.		
10/576,893	v576,893 04/24/2006 Kenneth L. Thompson 76981		76981	3672	3409		
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Invertor Rethod and Apparatus for adding a tubular to drill string with diverter						
COMMISSIONER FOR PATENTS:  Fransmitted herewith is an amendment in the above-identified application.							
		mitted as shown below					
		CLAIMS AS AM	IENDED	*****************	***************************************		
	CLAIMS REMAINING AFTER AMENOMENT	HIGHEST # PREV. PAID FOR	NUMBER I	1	RATE	ADDITIONAL FEE	
TOTAL CLAIMS	14 -	16 *	0		\$50.00	\$0.00	
INDEP. CLAIMS	3 -	3 =	O	×	\$200.00	\$0.00	
Multiple Depender	t Claims (check if app	icable) 🗓	· &			\$0.00	
		TOTAL ADDITIONAL	FEE FOR	THIS AMEN	OMENT	\$0.00	
☐ Please ch ☐ A check in 図 The Direc communic 図 Any i 図 Any i ☐ Payment I WARNING	☐ Please charge Deposit Account No. in the amount of ☐ A check in the amount of to cover the filing fee is enclosed. ② The Director is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account ② Any additional filing fees required under 37 C.F.R. 1.16. ② Any patent application processing fees under 37 CFR 1.17.						
	Signature			January 28,			
Bartlett & Sherer  Gerow D. Brill, Reg. Number 34554  20 Oakmont Circle  New Freedom, PA 17349  I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Commissioner for Patents P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(8)] on January 28, 2008  (Core  Signature of Person Mailing Correspondence					ficient postage as first nmissioner for Patents, [37 CFR 1.8(e)] on		
<i>CC</i>	Gerow D. Brill  Typed or Printed Name of Person Mailing Correspondence						

4.



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.

Filing Date

Examiner

Group Art Unit

10/576,893

04/24/2006

K.L.Thompson

3672

Applicant

Title

Docket No.

Customer Number

Laurence J. Ayling M&A for Adding

A Tubular to a Drill String

With Diverter

593-PCT-US

75981

AMENDEMENT

I hereby certify that this correspondence is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450,

on 29 January 2008.

Commissioner of Patents

Sir:

This is a response to the Office Action dated December 2008. Please amend the above-identified Application, as follows:

In order to expedite the prosecution, please cancel Claims 56 - 68, add new Claims 73-81. Claims 69-72 remain unchanged.

## LIST OF CLAIMS

Claims 1-68 (Cancelled) Claims 69-72 (Previously entered)

Claim 73-81 (New)

- 69. (Previously entered) A valve assembly for use in continuously supplying drilling fluid from a tubular to a drill string comprising:
- (a) a valve body having a first inlet passage adapted to be connected to a tubular, and an outlet passage adapted to be connected to a drill string;
- (b) said valve body having a second inlet passage, said second inlet passage extending into said valve body at substantially a right angle with respect to that of said first inlet passage and said outlet passage;
  - (c) high pressure scal means surrounding said second inlet passage;
- (d) annual fluid passage means within said seal for flowing drilling fluid from outside said seal into said second inlet passage;
- (e) a two position valve positioned in said valve body such as to, in a first position permit flow from said tubular to said drill string while preventing flow from said second inlet passage, and in a second position preventing flow from said tubular to said drill string while permitting flow into said drill string from said second inlet passage; and
- (f) actuator means for moving said two position valve to and from said first and second positions.
- 70. (Previously entered) The valve assembly of Claim 69 wherein said actuator means is positioned outside of said valve body.
- 71. (Previously entered) The valve assembly of Claim 69 wherein said actuator means is positioned within said valve body.

- 72. (Previously entered) The valve assembly of Claim 69 wherein said valve actuator means are responsive to the differential pressure in said first inlet passage versus the pressure in said second inlet passage.
- 73. (New) A method for continuously circulating a drilling fluid down a drill string while tubulars are added to said drill string comprising:
- (a) mounting a diverter sub containing a valve at the lower end of each of a plurality of tubulars to be joined to a drill string;
- (b) moving said valve to a first position which prevents the flow of drilling fluid from the tubular into the drill string while simultaneously allowing the flow of drilling fluid from outside the diverter sub into and down said drill string while joining a tubular to a drill string;
- (c) subsequently moving said valve to a second position preventing the flow of drilling fluid from drilling fluid from said tubular downwardly into said drill string after said joint has been made;
- (d) sealing the diverter sub against flow of drilling fluid from outside the diverter sub when said valve is not in said second position; and
- (e) continuing to rotate the drill string in a bore hole while adding tubulars, and continuing the circulation of drilling fluid down the drill string during such drilling.
- 74. (New) A diverter sub comprising in combination:
- (a) an inlet of a size and shape to be connected to a tubular and an outlet of a size and shape to be connected to a drill string;

- (b) side port means in said diverter through which drilling fluid may flow into said sub:
- (c) diverter valve means mounted within said sub for movement between first and second positions;
- (d) said valve means being positioned in said sub for closing said side port means in said first position while allowing drilling fluid to flow from said tubular to and down said drill string, and a second position for preventing flow from said tubular to said drill string while allowing drilling fluid to flow through said side port means and down said drill string:
- (e) sealing means surrounding said side port means, and passage means for flowing drilling fluid through said sealing means to and through said side port means; and
- (f) said passage means include a flow passage extending at least partially circumferentially about the longitudinal axis of said diverter sub.
- 75. (New) The diverter sub of Claim 74 wherein said sealing means are of such construction, material and configuration such as to maintain a fluid-tight seal against drilling fluid pressures of at least 5,000 psi.
- 76. (New) The diverter sub as claimed in Claim 74 wherein said scaling means comprise first and second scal means, and wherein said first and second scal means are positioned above and below said side port means, respectively.

- 77. (New) The diverter sub as claimed in Claim 74 wherein said scaling means comprise:
- (a) an annular seal member surrounding and engaging the external surface of said diverter sub, and;
  - (b) clamp means surrounding said seal means, and;
- (c) means for forcing said clamp means against said seal member for forcing said annular seal member against said external force with a force sufficient to withstand drilling fluid pressures of at lest 5,000 psi.
- 78. (New) The diverter sub as claimed in Claim 74 wherein said scal means surround said side port means and include an annular passage in fluid communication with said side port means, and inlet passage means in fluid communication with said annular passage means for supplying high pressure drilling fluid through said annular passage and said side port means into and down said drill string.
- 79. (New) The diverter sub as claimed in Claim 74 wherein said valve means include a pivot for pivoting said valve means between first and second positions, and wherein said valve means are positioned and are of such structural design as to be forced into said first and second positions by pressure differentials between the drilling fluid in said tubular versus that in said side port means.
- 80. (New) The diverter sub of Claim 74 including lever means for opening and closing said valve means, said lever means extending at an angle to the longitudinal axis of said diverter sub.

- 81. (New) The diverter sub of Claim 74 wherein said diverter sub is integral with one end of said tubular.
- 82. (New) The diverter sub of Claim 74 whwerein said valve means comprises two non-return valves one of which will allow drilling fluid to flow from said tubular to and down said drill string whilst the other will allow drilling flyuid to flow through a said side port means and down said string.

#### REMARKS

This is in response to the Office Action dated 5 December 2007. The Applicant wishes to thank the Examiner for the allowance of Claims 69-72. In addition, the Examiner stated that Claims 58-62, 64 and 68 are objected to as being dependent upon a rejected base claim. The Applicant is amending the Claims in order to overcome the Examiners objections and rejections. Since Claims 69-72 were allowed by the Examiner, they remain unchanged.

Claim 73 is a newly rewritten claim replacing cancelled Claims 66-68 and is written in response to the rejection of Claims 66-67 and the objected Claim 68.

Claims 74-81 are newly rewritten claims replacing cancelled Claims 56-65 and are written in response to the rejection of Claims 56,57, 63 and objected Claims 58-62 and 64.

Claim 82, a newly added claim, covers an embodiment in which two separate and distinct non-return valves are used rather than a single valve. There is a basis for this on page 11 lines 25 et seq. of the specification.

The Applicant respectfully requests an early allowance of Claims 69-83 now in the application.

Respectfully submitted.

Gerow D. Brill

Counsel for Applicant Registration No. 34,554

Bartlett & Sherer 20 Oakmont Circle New Freedom, PA 17349 Telephone: (717)227-1197

Fax: (717) 235-1899